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Annli	ication Da	ta Sheet 37 CF	R 1 76	Attorne	y Docket N	umber	NGB-16837		
Дррп	ication ba		1.70	Applica	ation Numbe	∍r			
Title of	Title of Invention								
bibliogra This do	aphic data arran cument may be	iged in a format specifie	d by the Un lly and sub	ited States mitted to th	Patent and Tr	ademark O	ffice as o	bmitted. The following form contains outlined in 37 CFR 1.76. ng the Electronic Filing System (EFS	
Secre	cy Orde	r 37 CFR 5.2							
1 1 1				•	•		-	all under a Secrecy Order pur not be filed electronically.)	suant to
Appli	cant Info	ormation:							
Applic	ant 1							Remove	
Applic	ant Authori	ity • Inventor	Legal Rep	oresentativ	e under 35	U.S.C. 11	7 (Party of Interest under 35 U.S.	.C. 118
Prefix	Given Nar	ne	Mi	iddle Naı	me		Famil	ly Name	Suffix
	Katsuya						Fukas	Se	
Resid	lence Inforn	nation (Select One	e) Us	Residenc	y 💿 No	on US Re	sidency	Active US Military Service	;
City	Nagano-shi,	Nagano	Count	try Of Re	sidencei	JP			
Citizei	nship under	37 CFR 1.41(b) i	JP						
Mailin	g Address o	of Applicant:	•						
Addre	ss 1	c/o Shinko E	lectric Indu	ustries Co.	, Ltd.				
Addre	ss 2	80, Oshimad	a-machi						
City	Nagan	o-shi, Nagano			Stat	e/Provir	ıce		
Postal	l Code	381-2287			Country	JP			
Applic	ant 2			'				Remove	
		ity • Inventor	Legal Rep	resentativ	e under 35	U.S.C. 11	7 (Party of Interest under 35 U.S.	.C. 118
Prefix	Given Nar	ne	Mi	iddle Naı	me		Famil	ly Name	Suffix
	Toyoaki						Sakai	<u> </u>	
Resid	ence Inforn	nation (Select One	e) Us	Residenc	y No	on US Re	sidency	Active US Military Service	<u> </u>
City	Nagano-shi,	Nagano	Count	try Of Re	sidencei	JP			
Citizei	nship under	37 CFR 1.41(b) i	JP						
Mailin	g Address o	of Applicant:	L						
Address 1 c/o Shinko Electric Industries Co., Ltd.									
Address 2 80, Oshimada-machi									
City	Nagan	o-shi, Nagano			Stat	e/Provir	ıce		
Postal	l Code	381-2287			Country	JP			
Applic	ant 3	ı			l	1		Remove	
		ity • Inventor	Legal Rep	resentativ	re under 35	U.S.C. 11	7 (Party of Interest under 35 U.S.	.C. 118
Prefix		-	Mi	iddle Naı	me		Famil	ly Name	Suffix

US Residency

Country Of Residence

Irisawa

Active US Military Service

Non US Residency

JΡ

City

Munetoshi

Tokyo

Residence Information (Select One)

Application Data Sheet 37 CFR				Attorney Docket Number			NGB-1	16837	
, (pp.		011001.01		Application Number					
Title of	Title of Invention								
Citizer	nship under	37 CFR 1.41(b) i JP						
Mailin	g Address o	f Applicant:							
Addre	ss 1	c/o Mitsul	oishi Paper	Mills Limited	d				
Addre	ss 2	4-2, Maru	nouchi 3-ch	nome, Chiyo	oda-ku				
City	Tokyo				State	e/Provin	nce		
Postal	Code	100-0005	1		Countryi	JP			
Applic	ant 4							Remove	
	ant Authorit	ty • Inventor	◯Legal R	epresentativ	ve under 35 L	J.S.C. 11	7	Party of Interest under 35 U.S	.C. 118
Prefix				Middle Na	me		Family	y Name	Suffix
	Toyokazu						Komur	ro	
Resid	ence Inform	ation (Select C	One) 🔘 L	JS Residenc	cy No	n US Res	sidency	Active US Military Service	e
City	Tokyo		Cou	intry Of Re	esidencei	JP			
Citizer	nship under	37 CFR 1.41(b)i JP		·				
Mailin	g Address o	f Applicant:	ļ						
Addre	ss 1	c/o Mitsul	oishi Paper	aper Mills Limited					
Addre	ss 2	4-2, Maru	nouchi 3-ch	nome, Chiyo	oda-ku				
City	Tokyo	1			State	e/Provin	nce		
Postal	Code	100-0005	ı		Countryi	JP			
Applic	ant 5	<u>'</u>						Remove	
Applic	ant Authorit	ty • Inventor	◯Legal R	epresentativ	ve under 35 L	J.S.C. 11	7	Party of Interest under 35 U.S	.C. 118
Prefix	Given Nam	ie		Middle Name			Family	Suffix	
	Yasuo						Kaneda		
Resid	ence Inform	ation (Select C	One) 🔘 L	JS Residend	cy 💿 No	n US Res	sidency	Active US Military Service	e
City	Tokyo		Cou	intry Of Re	esidencei	JP			
Citizer	nship under	37 CFR 1.41(b)i JP		•				
Mailin	g Address o	f Applicant:	'						
Addre	ss 1	c/o Mitsul	oi <mark>shi Pape</mark> r	Mills Limited	d				
Addre	ss 2	4-2, Maru	nouchi 3-ch	nome, Chiyo	oda-ku				
City	Tokyo				State	e/Provin	ісе		
Postal Code 100-0005					Countryi JP				
Applic	Applicant 6								
Applic	ant Authorit	y • Inventor	◯Legal R	epresentativ	ve under 35 L	J.S.C. 11	7	Party of Interest under 35 U.S	.C. 118
				Middle Name			Family	Suffix	
1 10117	Given Nam	ie		Natsuka					
TTCIIX	Masanori	ie					Natsuk	ka	
	Masanori	ation (Select C		JS Residenc	cy No	n US Res		ka Active US Military Service	e
	Masanori		One) O	JS Residend	- 	n US Res			e

Application Data Sheet 37 CFR 1.76			Attorne	Attorney Docket Number		NGB-16837			
	Application Number								
Title of Invention	Title of Invention								
Mailing Address of	Applicant:								
Address 1	c/o Mitsubishi	Paper Mi	lls Limited						
Address 2	4-2, Marunoud	chi 3-chor	ne, Chiyod	da-ku					
City Tokyo				St	ate/Provin	ice			
Postal Code	100-0005			Country	i JP				
Applicant 7							R	emove	
Applicant Authority	/ ● Inventor	egal Rep	resentative	e under 35	U.S.C. 11	7	Party of Interes	t under 35 U.S.	.C. 118
Prefix Given Name		Mi	iddle Nar	ne		Family	y Name		Suffix
Wakana						Aizawa	a		
Residence Informa	ation (Select One)	Us	Residency	y <u>•</u> 1	lon US Res	sidency	O Active US	Military Service	<u>;</u>
City Tokyo		Count	ry Of Re	sidencei	JP				
Citizenship under 3	37 CFR 1.41(b) ^j	JP			•				
Mailing Address of	Applicant:								
Address 1	c/o Mitsubishi	Paper Mi	lls Limited						
Address 2	4-2, Marunoud	chi 3-chor	ne, Chiyod	da-ku					
City Tokyo				St	ate/Provin	ice			
Postal Code	100-0005			Country	i JP				
All Inventors Must generated within this				nformation	blocks i	may be		Add	
Corresponden	ce Informatio	on:							
Enter either Custor For further informa		-	the Corre	esponder	ice Inforn	nation s	section below.		
An Address is	being provided for	or the co	orrespon	dence In	ormation	of this	application.		
Customer Number	40854								
Email Address	spaw@ran	kinhill.con	.com				Add Email	Remove	Email
Application Inf	ormation:								
Title of the Invention	Title of the Invention CIRCUIT BOARD MANUFACTURING METHOD AND CIRCUIT BOARD								
Attorney Docket Nu	umber NGB-1683	NGB-16837 Small Enti				ntity Status Claimed			
Application Type	Nonprovisi	Nonprovisional							
Subject Matter	Utility								
Suggested Class (i	f any)				Sub Class	s (if any	<u>/)</u>		
Suggested Techno	logy Center (if an	y)							
Total Number of Dr		-	54		Suggeste	d Figur	e for Publicati	on (if any)	1
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Application Data Sheet 37 CFR 1.76			Attorney D	Docket Number NGB-16837				
			Application	Number				
Title of Invention	CIRCU	JIT BOARD MANUFAC	TURING ME	THOD AND CIRCU	JIT BOARD			
Publication Inform	nation:							
Request Early	/ Publica	ation (Fee required at	time of Req	uest 37 CFR 1.2	219)			
and certify that	at the in	sh. I hereby request to vention disclosed in to the country, or undented to the country, or under the country,	he attached	application has	not been an	d will not be	e the subje	ct of an
Representative infor	Representative Information: Representative information should be provided for all practitioners having a power of attorney in the application. Providing this information in the Application Data Sheet does not constitute a power of attorney in the application (see 37 CFR 1.32).							
are completed the Cu	ustomer	Number or comple Number will be used for	the Represe	ntative Information			If both	sections
Please Select One		Customer Number	O US	Patent Practitione	er U	S Represent	tative (37 CF	R 11.9)
Customer Number		40854						
application data shee	or the appet constitu	nformation: plicant to claim benefit utes the specific referer e made part of the spec	nce required b					
Prior Application	Status					R	temove	
Application Nur	mber	Continuity ⁻	Гуре	Prior Application Number Fil			ate (YYYY	-MM-DD)
		a 371 of internationa	ıl	PCT/JP2005/00	3490	2005-03-0	02	
Additional Domest the Add button.	ic Priori	ty Data may be gen	erated withi	n this form by s	electing		Add	
Foreign Prior								
	This section allows for the applicant to claim benefit of foreign priority and to identify any prior foreign application for which priority is not claimed. Providing this information in the application data sheet constitutes the claim for priority as required by 35 U.S.C. 119(b) and 37 CFR 1.55(a).							
Application Num		Country	, i	Devent Filing D	////// I		lemove Drie rite	. Claimed
Application Nur	IIDEI	Country	′ '	Parent Filing D	rale (TTTT-I	(טט-יוויוי)		y Claimed
2004-059627		JP		2004-03-03		я	ernove Yes	○ No
Application Nur	mber	Country	, i	Parent Filing D	ate (YYYY-I			y Claimed
2004-059629		JP	•	2004-03-03		,	Yes	→ No
						R	temove	
Application Nur	mber	Country	, i	Parent Filing D	ate (YYYY-I			y Claimed
2004-059630		JP		2004-03-03			Yes	O No
L		1						

Application Da	nta Sheet 37 CFR 1.76	Attorney Docket Number	NGB-16837	
Application Data Sheet 37 Cl K 1.70		Application Number		
Title of Invention	CIRCUIT BOARD MANUFACTURING METHOD AND CIRCUIT BOARD			

			Remove
Application Number	Country i	Parent Filing Date (YYYY-MM-DD)	Priority Claimed
2004-059631	JP	2004-03-03	● Yes ○ No
			Remove
Application Number	Country i	Parent Filing Date (YYYY-MM-DD)	Priority Claimed
2004-059632	JP	2004-03-03	Yes No
			Remove
Application Number	Country i	Parent Filing Date (YYYY-MM-DD)	Priority Claimed
2004-059633	JP	2004-03-03	Yes No
			Remove
Application Number	Country i	Parent Filing Date (YYYY-MM-DD)	Priority Claimed
2004-059634	JP	2004-03-03	Yes No
			Remove
Application Number	Country i	Parent Filing Date (YYYY-MM-DD)	Priority Claimed
2004-059635	JP	2004-03-03	● Yes ○ No
			Remove
Application Number	Country i	Parent Filing Date (YYYY-MM-DD)	Priority Claimed
2004-362991	JP	2004-12-15	● Yes ○ No
			Remove
Application Number	Country i	Parent Filing Date (YYYY-MM-DD)	Priority Claimed
2004-362992	JP	2004-12-15	Yes No
			Remove
Application Number	Country i	Parent Filing Date (YYYY-MM-DD)	Priority Claimed
2004-362993	JP	2004-12-15	● Yes ○ No
			Remove
Application Number	Country i	Parent Filing Date (YYYY-MM-DD)	Priority Claimed
2004-362994	JP	2004-12-15	Yes No
			Remove
Application Number	Country i	Parent Filing Date (YYYY-MM-DD)	Priority Claimed
2004-362995	JP	2004-12-15	Yes No
			Remove
Application Number	Country i	Parent Filing Date (YYYY-MM-DD)	Priority Claimed
2004-362996	JP	2004-12-15	Yes No
			Remove
Application Number	Country i	Parent Filing Date (YYYY-MM-DD)	Priority Claimed
2004-362997	JP	2004-12-15	Yes No

Application Da	nta Sheet 37 CFR 1.76	Attorney Docket Number	NGB-16837	
Application Data Sheet 37 Cl K 1.70		Application Number		
Title of Invention	CIRCUIT BOARD MANUFACTURING METHOD AND CIRCUIT BOARD			

		Re	move				
Application Number	Country i	Parent Filing Date (YYYY-MM-DD)	Priority Claimed				
2004-362998	JP	2004-12-15	● Yes ○ No				
Additional Foreign Priority Data may be generated within this form by selecting the Add button. Add							

Assignee Information:

	Providing this information in the application data sheet does not substitute for compliance with any requirement of part 3 of Title 37 of the CFR to have an assignment recorded in the Office.					
Assignee 1			Remove			
If the Assignee is an Orga	nization check here.					
Organization Name S	HINKO ELECTRIC INDUSTRIES CO.	., LTD.				
Mailing Address Informa	tion:					
Address 1	80, Oshimada-machi					
Address 2						
City	Nagano-shi, Nagano	State/Province				
Country JP		Postal Code	381-2287			
Phone Number		Fax Number				
Email Address						
Assignee 2			Remove			
If the Assignee is an Orga	nization check here.					
Organization Name	IITSUBISHI PAPER MILLS LIMITED					
Mailing Address Informa	tion:					
Address 1	4-2, Marunouchi 3-chome					
Address 2	Chiyoda-ku					
City	Tokyo	State/Province				
Country JP		Postal Code	100-0005			
Phone Number		Fax Number				
Email Address	Email Address					
Additional Assignee Data may be generated within this form by selecting the Add button.						

Signature:

A signature of the applicant or representative is required in accordance with 37 CFR 1.33 and 10.18. Please see 37 CFR 1.4(d) for the form of the signature.						
Signature	/David E. Spaw/			Date (YYYY-MM-DD)	2006-09-01	
First Name	David E.	Last Name	Spaw	Registration Number	34732	

PTO/SB/14 (08-05) Approved for use through 07/31/2006. OMB 0651-0032

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Application Da	nta Sheet 37 CFR 1 76	Attorney Docket Number	NGB-16837		
Application Data Sheet 37 CFR 1.76		Application Number			
Title of Invention	CIRCUIT BOARD MANUFAC	SOARD MANUFACTURING METHOD AND CIRCUIT BOARD			

This collection of information is required by 37 CFR 1.76. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 23 minutes to complete, including gathering, preparing, and submitting the completed application data sheet form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

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- 6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).
- 7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.
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- A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.